

Weekly SARS-CoV-2 Sequencing Summary for the State of Maine

August 13th, 2021

SUMMARY

Critical updates

- 5502 genomes sampled between March 10, 2020 and August 5, 2021 are included in the analysis
- 966 B.1.1.7 (alpha) Variant of Concern have been identified (3 additional samples since 8/5 report)
- 5 B.1.351 (beta) Variant of Concern have been identified (no additional samples since 8/5 report)
- 398 B.1.617.2/AY.1/AY.2/AY.3* (delta) Variant of Concern have been identified (238 additional samples since 8/5 report)
- 119 P.1/P.1.1 (gamma) Variant of Concern have been identified (1 additional samples since 8/5 report)

Notable Updates

- The delta variant represents 100% of all sequenced samples collected in August (35 samples total).

IMPORTANCE

- Variants of Concern have increased transmission
- Variants of Concern have increased severity of disease based on hospitalization and case fatality rates
- Variants of Concern have decreased susceptibility to therapeutic agents such as monoclonal antibodies
- Variants of Concern could evade natural or vaccine-induced immunity

CAVEATS and CONCERNS

- County information is missing in this analysis for ~45% of samples sequenced externally (e.g. CDC).
- Weekly biases exist due to uneven sampling across the state
- Need to reduce location bias by sequencing more samples from varying facilities and laboratories
- Turnaround times need to decrease to inform infection control practices
- Phylogenetic tree has no county metadata. Public release of county or aggregated-county metadata will aid regional analysis
- Phylogenetic tree has no PHI (an internal tree with PHI should be constructed)

REFERENCES

- <https://nextstrain.org/community/tewhey-lab/ncov-ME/latest>
<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/variant-info.html>
<https://covariants.org/>
<https://outbreak.info/situation-reports>
<https://nextstrain.org/>
<https://github.com/tewhey-lab/ncov-ME>

Variant	WHO Label	Category	Cumulative Count	May 2021	June 2021	July 2021	Aug 2021
P.1*	Gamma	VOC	119	4.4%	2.5%	1.5%	0.0%
B.1.351	Beta	VOC	5	0.0%	0.0%	0.0%	0.0%
B.1.1.7	Alpha	VOC	966	40.6%	28.4%	2.3%	0.0%
B.1.617.2**	Delta	VOC	398	0.3%	3.6%	86.1%	100.0%
B.1.427	Epsilon	VOI	4	0.0%	0.0%	0.0%	0.0%
B.1.429	Epsilon	VOI	136	1.0%	0.4%	0.0%	0.0%
B.1.525	Eta	VOI	8	0.0%	0.0%	0.0%	0.0%
B.1.526	Iota	VOI	1322	49.4%	50.2%	5.3%	0.0%
B.1.617.1	Kappa	VOI	0	0.0%	0.0%	0.0%	0.0%
B.1.617.3	Zeta	VOI	0	0.0%	0.0%	0.0%	0.0%
P.2	Zeta	VOI	106	0.0%	0.0%	0.0%	0.0%
Total VOI/VOC Sequenced			3064	1024	234	253	35
Total Cases Sequenced			5502	1070	275	266	35

Table 1: Proportion of cases sequenced classified as a variant of interest or concern by month.

P.1* includes P.1 and the subclade P.1.1

B.1.617.2** includes B.1.617.2 and the subclades AY.1, AY.2, AY.3 and AY.3.1

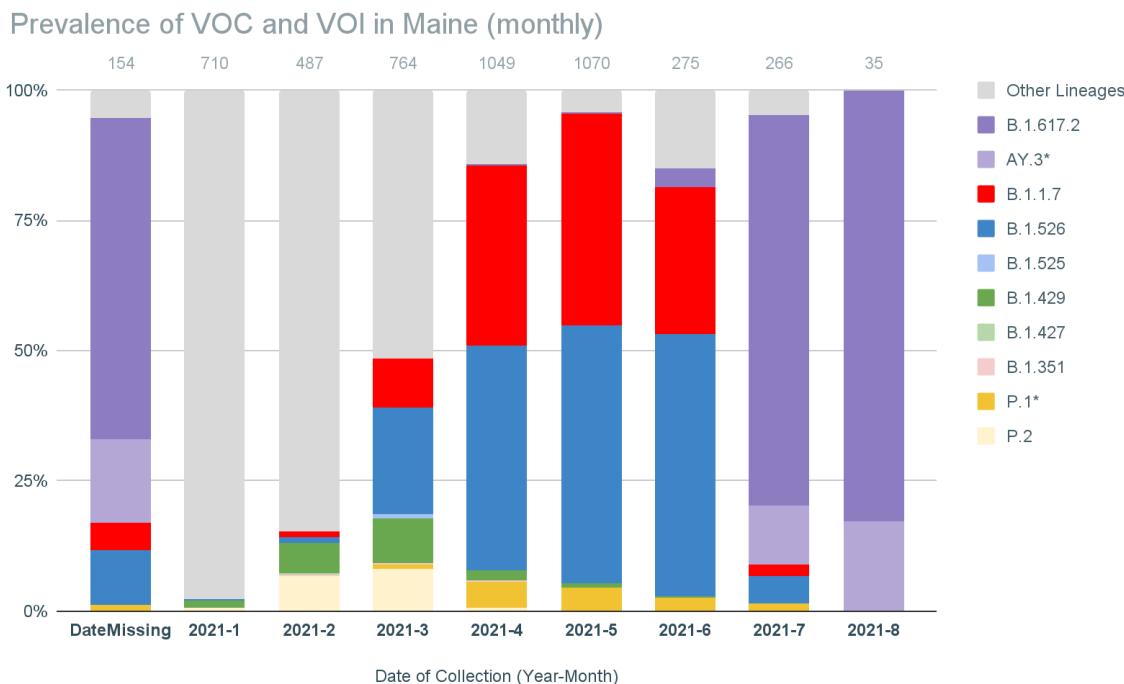


Figure 1: Proportion of samples typed as VOC and VOI by month. Samples represented as “DateMissing” include samples sequenced in the past 60 days without metadata.

P.1* includes P.1 and the subclade P.1.1

AY.3* includes AY.3 and AY.3.1

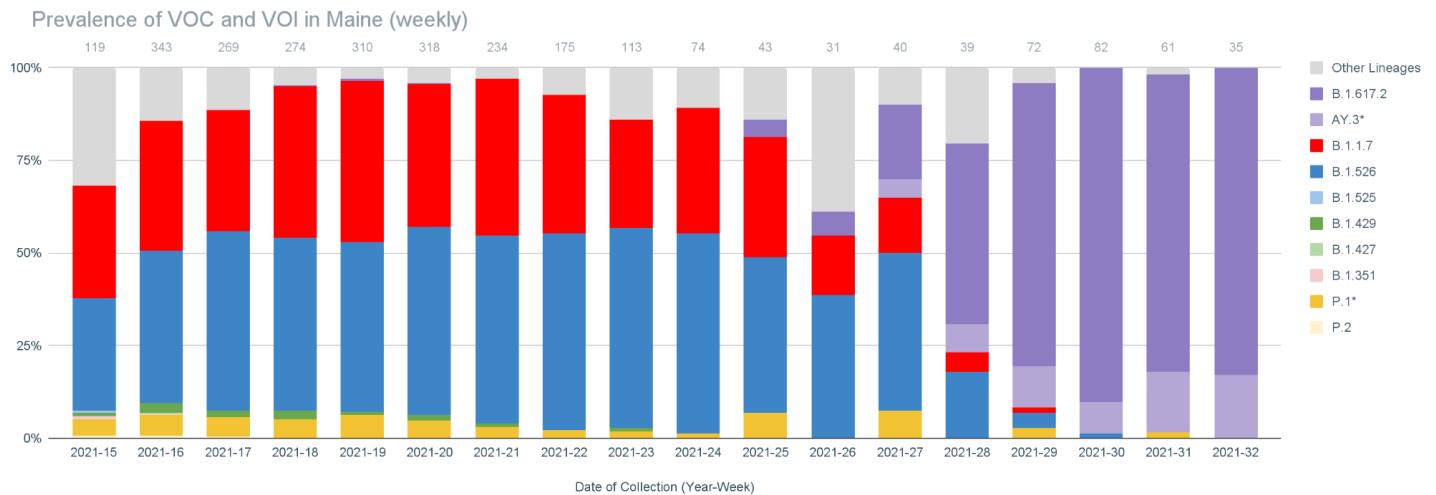


Figure 2: Proportion of samples typed as VOC and VOI by week.

P.1* includes P.1 and the subclade P.1.1

AY.3* includes AY.3 and AY.3.1

Mutation	Gene	Category	Cumulative Count	May 2021	June 2021	July 2021	Aug 2021
S:E484K	Spike	Substitution	501	13.2%	21.5%	6.0%	0.0%
S:L452R	Spike	Substitution	976	18.5%	25.5%	87.6%	100.0%

Table 2: Proportion of cases sequenced with substitutions of therapeutic concern

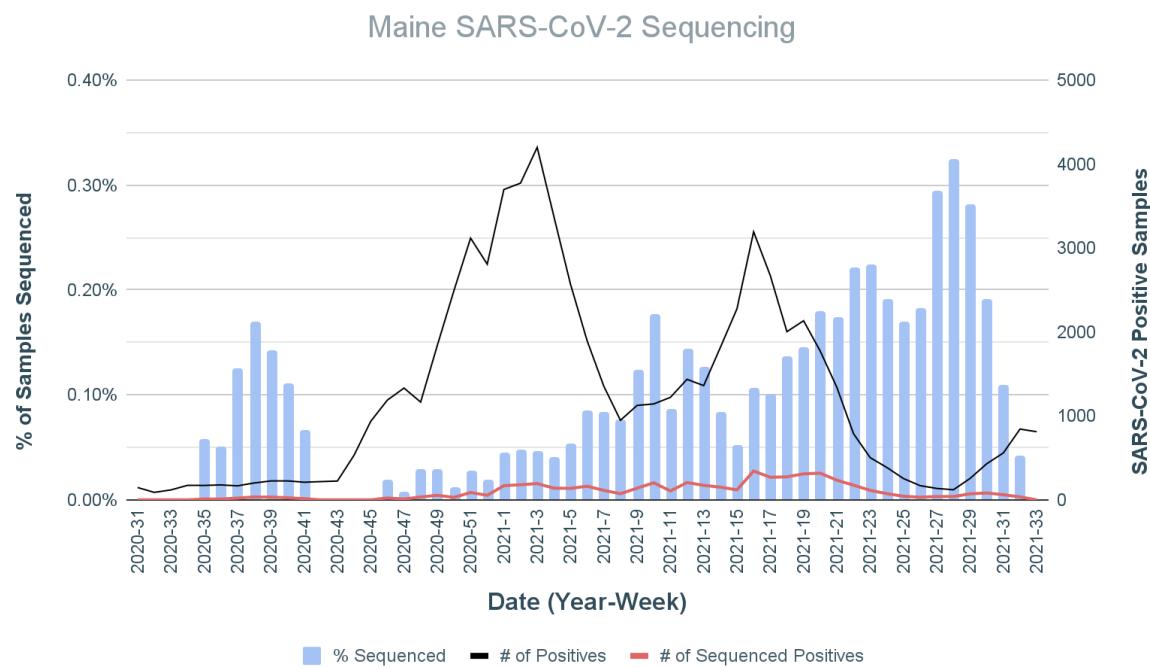


Figure 3: Proportion of COVID-19 positive samples sequenced.

Sample Collection Date	JAX	HETL	CDC	Other
Missing Date	172	0	0	0
Pre-Sept 2020	119	0	0	8
Sept 2020	116	0	0	0
Oct 2020	19	0	0	0
Nov 2020	98	0	0	0
Dec 2020	299	0	12	2
Jan 2021	602	0	88	20
Feb 2021	343	13	120	11
Mar 2021	514	16	215	19
Apr 2021	608	83	341	17
May 2021	703	59	298	10
June 2021	225	0	44	6
July 2021	249	0	15	2
August 2021	35	0	0	0

Table 3: Total number of samples sequenced. Only Sequences passing quality metrics are included. CDC totals include samples from federal contracts (LabCorp, Helix, Broad) and 10 samples requested from HETL every 2 weeks via the NS3 surveillance program.

	Total	07/11/21 - 07/17/21	07/18/21 - 07/24/21	07/25/21 - 07/31/21	08/01/21 - 08/07/21
Total number of cases sequenced	5502	72	82	61	35
Total positive tests by molecular testing	55664	N/A	N/A	N/A	N/A
Total positive tests	79517	255	430	559	843
Percent of positives sequenced (molecular)	9.88%	-	-	-	-
Percent of positives sequenced (total)	6.92%	28.24%	19.07%	10.91%	4.15%

Table 4: Total proportion of positive tests sequenced.

Supplemental Table 1: VOC/VOI proportion and total counts by county. Sequences obtained through GISAID (CDC, HETL, Other) are not included in the by-county breakdown.

Variant	County	Cumulative % (total count)	May 2021	June 2021	June 2021	August 2021
P.1*	ANDROSCOGGIN	1.7% (12)	5.5% (7)	6.3% (1)	0% (0)	0% (0)
P.1*	AROOSTOOK	8.6% (17)	24.5% (13)	0% (0)	6.3% (1)	0% (0)
P.1*	CUMBERLAND	2.2% (19)	3.7% (4)	9.1% (2)	0% (0)	0% (0)
P.1*	FRANKLIN	1.0% (1)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	KENNEBEC	2.0% (7)	3.2% (3)	0% (0)	4.0% (1)	0% (0)
P.1*	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	OXFORD	1.8% (4)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	PENOBCOT	3.6% (21)	7.3% (13)	0% (0)	5.9% (2)	0% (0)
P.1*	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	WALDO	2.1% (2)	0% (0)	33.3% (2)	0% (0)	0% (0)
P.1*	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.1*	YORK	2.2% (12)	3.2% (3)	4.7% (2)	0% (0)	0% (0)
P.1*	Total (w/ county information)	2.2% (95)	4.8% (43)	2.9% (7)	1.7% (4)	0% (0)
P.1*	Total	2.2% (119)	4.4% (47)	2.5% (7)	1.5% (4)	0% (0)
B.1.351	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	CUMBERLAND	0.1% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	LINCOLN	2.9% (2)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	YORK	0.2% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	Total (w/ county information)	0.1% (4)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.351	Total	0.1% (5)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.1.7	ANDROSCOGGIN	19.0% (134)	34.4% (44)	25.0% (4)	0% (0)	0% (0)
B.1.1.7	AROOSTOOK	11.6% (23)	26.4% (14)	16.7% (2)	6.3% (1)	0% (0)
B.1.1.7	CUMBERLAND	17.0% (148)	44.4% (48)	22.7% (5)	0% (0)	0% (0)
B.1.1.7	FRANKLIN	18.4% (18)	21.4% (3)	62.5% (5)	20.0% (1)	0% (0)
B.1.1.7	HANCOCK	14.7% (15)	36.0% (9)	50.0% (1)	0% (0)	0% (0)
B.1.1.7	KENNEBEC	13.4% (48)	31.9% (30)	41.7% (10)	0% (0)	0% (0)
B.1.1.7	KNOX	15.0% (12)	57.1% (8)	75.0% (3)	0% (0)	0% (0)
B.1.1.7	LINCOLN	54.3% (38)	76.2% (16)	33.3% (1)	0% (0)	0% (0)
B.1.1.7	OXFORD	18.9% (43)	50.0% (16)	53.8% (7)	20.0% (2)	0% (0)
B.1.1.7	PENOBCOT	17.5% (103)	42.9% (76)	24.5% (13)	0% (0)	0% (0)
B.1.1.7	SAGADAHOC	24.1% (14)	52.9% (9)	50.0% (1)	0% (0)	0% (0)
B.1.1.7	SOMERSET/PISCATAQUIS	21.1% (59)	44.3% (39)	12.5% (3)	7.7% (1)	0% (0)
B.1.1.7	WALDO	13.4% (13)	43.5% (10)	33.3% (2)	0% (0)	0% (0)
B.1.1.7	WASHINGTON	10.1% (7)	44.4% (4)	22.2% (2)	0% (0)	0% (0)
B.1.1.7	YORK	18.8% (101)	39.4% (37)	25.6% (11)	2.2% (1)	0% (0)
B.1.1.7	Total (w/ county information)	17.9% (776)	40.5% (363)	29.0% (70)	2.6% (6)	0% (0)
B.1.1.7	Total	17.6% (966)	40.6% (434)	28.4% (78)	2.3% (6)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	May 2021	June 2021	June 2021	August 2021
B.1.427	ANDROSCOGGIN	0.1% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	CUMBERLAND	0.2% (2)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	HANCOCK	1.0% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	Total (w/ county information)	0.1% (4)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.427	Total	0.1% (4)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	ANDROSCOGGIN	1.4% (10)	1.6% (2)	0% (0)	0% (0)	0% (0)
B.1.429	AROOSTOOK	6.1% (12)	13.2% (7)	0% (0)	0% (0)	0% (0)
B.1.429	CUMBERLAND	4.2% (37)	1.9% (2)	0% (0)	0% (0)	0% (0)
B.1.429	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	KENNEBEC	1.7% (6)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	OXFORD	1.8% (4)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	PENOBCOT	3.1% (18)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	SAGADAHOC	3.4% (2)	0% (0)	50.0% (1)	0% (0)	0% (0)
B.1.429	SOMERSET/PISCATAQUIS	0.4% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	WALDO	1.0% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	WASHINGTON	1.4% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	YORK	2.1% (11)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.429	Total (w/ county information)	2.4% (103)	1.2% (11)	0.4% (1)	0% (0)	0% (0)
B.1.429	Total	2.5% (136)	1.0% (11)	0.4% (1)	0% (0)	0% (0)
B.1.525	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	FRANKLIN	3.1% (3)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	OXFORD	1.8% (4)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	YORK	0.2% (1)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	Total (w/ county information)	0.2% (8)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.525	Total	0.1% (8)	0% (0)	0% (0)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	May 2021	June 2021	June 2021	August 2021
B.1.526	ANDROSCOGGIN	27.2% (192)	58.6% (75)	56.3% (9)	0% (0)	0% (0)
B.1.526	AROOSTOOK	5.6% (11)	7.5% (4)	16.7% (2)	0% (0)	0% (0)
B.1.526	CUMBERLAND	17.5% (153)	49.1% (53)	50.0% (11)	2.9% (1)	0% (0)
B.1.526	FRANKLIN	18.4% (18)	78.6% (11)	37.5% (3)	0% (0)	0% (0)
B.1.526	HANCOCK	21.6% (22)	48.0% (12)	50.0% (1)	14.3% (1)	0% (0)
B.1.526	KENNEBEC	33.0% (118)	61.7% (58)	54.2% (13)	8.0% (2)	0% (0)
B.1.526	KNOX	28.8% (23)	42.9% (6)	25.0% (1)	6.3% (1)	0% (0)
B.1.526	LINCOLN	15.7% (11)	23.8% (5)	66.7% (2)	0% (0)	0% (0)
B.1.526	OXFORD	32.0% (73)	46.9% (15)	46.2% (6)	40.0% (4)	0% (0)
B.1.526	PENOBCOT	24.4% (143)	48.6% (86)	66.0% (35)	11.8% (4)	0% (0)
B.1.526	SAGADAHOC	32.8% (19)	47.1% (8)	0% (0)	0% (0)	0% (0)
B.1.526	SOMERSET/PISCATAQUIS	32.9% (92)	53.4% (47)	70.8% (17)	7.7% (1)	0% (0)
B.1.526	WALDO	19.6% (19)	52.2% (12)	33.3% (2)	0% (0)	0% (0)
B.1.526	WASHINGTON	29.0% (20)	44.4% (4)	77.8% (7)	0% (0)	0% (0)
B.1.526	YORK	22.8% (122)	48.9% (46)	27.9% (12)	0% (0)	0% (0)
B.1.526	Total (w/ county information)	23.9% (1036)	49.3% (442)	50.2% (121)	6.1% (14)	0% (0)
B.1.526	Total	24.0% (1322)	49.4% (529)	50.2% (138)	5.3% (14)	0% (0)
B.1.526.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.526.1	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	CUMBERLAND	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	HANCOCK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KENNEBEC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	PENOBCOT	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WALDO	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total (w/ county information)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.1	Total	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	May 2021	June 2021	June 2021	August 2021
B.1.617.2	ANDROSCOGGIN	1.1% (8)	0% (0)	12.5% (2)	62.5% (5)	100.0% (1)
B.1.617.2	AROOSTOOK	7.1% (14)	0% (0)	0% (0)	87.5% (14)	0% (0)
B.1.617.2	CUMBERLAND	3.8% (33)	0% (0)	18.2% (4)	70.6% (24)	100.0% (5)
B.1.617.2	FRANKLIN	4.1% (4)	0% (0)	0% (0)	80.0% (4)	0% (0)
B.1.617.2	HANCOCK	4.9% (5)	0% (0)	0% (0)	71.4% (5)	0% (0)
B.1.617.2	KENNEBEC	3.1% (11)	0% (0)	0% (0)	44.0% (11)	0% (0)
B.1.617.2	KNOX	12.5% (10)	0% (0)	0% (0)	56.3% (9)	100.0% (1)
B.1.617.2	LINCOLN	5.7% (4)	0% (0)	0% (0)	100.0% (1)	100.0% (3)
B.1.617.2	OXFORD	2.2% (5)	3.1% (1)	0% (0)	30.0% (3)	0% (0)
B.1.617.2	PENOBCOT	5.3% (31)	0% (0)	3.8% (2)	82.4% (28)	50.0% (1)
B.1.617.2	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
B.1.617.2	SOMERSET/PISCATAQUIS	3.9% (11)	0% (0)	0% (0)	84.6% (11)	0% (0)
B.1.617.2	WALDO	24.7% (24)	0% (0)	0% (0)	100.0% (14)	90.9% (10)
B.1.617.2	WASHINGTON	2.9% (2)	0% (0)	0% (0)	100.0% (2)	0% (0)
B.1.617.2	YORK	9.3% (50)	2.1% (2)	4.7% (2)	84.4% (38)	88.9% (8)
B.1.617.2	Total (w/ county information)	4.9% (212)	0.3% (3)	4.1% (10)	73.5% (169)	82.9% (29)
B.1.617.2	Total	6.1% (337)	0.3% (3)	3.6% (10)	74.8% (199)	82.9% (29)
AY.3*	ANDROSCOGGIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3*	AROOSTOOK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3*	CUMBERLAND	0.7% (6)	0% (0)	0% (0)	17.6% (6)	0% (0)
AY.3*	FRANKLIN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3*	HANCOCK	1.0% (1)	0% (0)	0% (0)	14.3% (1)	0% (0)
AY.3*	KENNEBEC	3.6% (13)	0% (0)	0% (0)	40.0% (10)	100.0% (3)
AY.3*	KNOX	7.5% (6)	0% (0)	0% (0)	37.5% (6)	0% (0)
AY.3*	LINCOLN	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3*	OXFORD	0.4% (1)	0% (0)	0% (0)	10.0% (1)	0% (0)
AY.3*	PENOBCOT	0.2% (1)	0% (0)	0% (0)	0% (0)	50.0% (1)
AY.3*	SAGADAHOC	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3*	SOMERSET/PISCATAQUIS	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3*	WALDO	1.0% (1)	0% (0)	0% (0)	0% (0)	9.1% (1)
AY.3*	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
AY.3*	YORK	0.9% (5)	0% (0)	0% (0)	8.9% (4)	11.1% (1)
AY.3*	Total (w/ county information)	0.8% (34)	0% (0)	0% (0)	12.2% (28)	17.1% (6)
AY.3*	Total	1.1% (61)	0% (0)	0% (0)	11.3% (30)	17.1% (6)
P.2	ANDROSCOGGIN	0.6% (4)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	AROOSTOOK	2.5% (5)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	CUMBERLAND	0.6% (5)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	FRANKLIN	1.0% (1)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	HANCOCK	15.7% (16)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	KENNEBEC	0.6% (2)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	KNOX	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	LINCOLN	5.7% (4)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	OXFORD	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	PENOBCOT	2.6% (15)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	SAGADAHOC	3.4% (2)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	SOMERSET/PISCATAQUIS	9.6% (27)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	WALDO	3.1% (3)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	WASHINGTON	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	YORK	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	Total (w/ county information)	1.9% (84)	0% (0)	0% (0)	0% (0)	0% (0)
P.2	Total	1.9% (106)	0% (0)	0% (0)	0% (0)	0% (0)

Supplemental Table 1 continued:

Variant	County	Cumulative % (total count)	May 2021	June 2021	June 2021	August 2021
	ANDROSCOGGIN	51.2% (361)	100.0% (128)	100.0% (16)	62.5% (5)	100.0% (1)
	AROOSTOOK	41.4% (82)	71.7% (38)	33.3% (4)	100.0% (16)	0% (0)
	CUMBERLAND	46.3% (404)	99.1% (107)	100.0% (22)	91.2% (31)	100.0% (5)
	FRANKLIN	45.9% (45)	100.0% (14)	100.0% (8)	100.0% (5)	0% (0)
	HANCOCK	58.8% (60)	84.0% (21)	100.0% (2)	100.0% (7)	0% (0)
	KENNEBEC	57.3% (205)	96.8% (91)	95.8% (23)	96.0% (24)	100.0% (3)
	KNOX	63.8% (51)	100.0% (14)	100.0% (4)	100.0% (16)	100.0% (1)
	LINCOLN	84.3% (59)	100.0% (21)	100.0% (3)	100.0% (1)	100.0% (3)
	OXFORD	58.8% (134)	100.0% (32)	100.0% (13)	100.0% (10)	0% (0)
	PENOBCOT	56.6% (332)	98.9% (175)	94.3% (50)	100.0% (34)	100.0% (2)
	SAGADAHOC	63.8% (37)	100.0% (17)	100.0% (2)	0% (0)	0% (0)
	SOMERSET/PISCATAQUIS	67.9% (190)	97.7% (86)	83.3% (20)	100.0% (13)	0% (0)
	WALDO	64.9% (63)	95.7% (22)	100.0% (6)	100.0% (14)	100.0% (11)
	WASHINGTON	43.5% (30)	88.9% (8)	100.0% (9)	100.0% (2)	0% (0)
	YORK	56.5% (303)	93.6% (88)	62.8% (27)	95.6% (43)	100.0% (9)
Total VOI/VOC Sequenced	Total (w/ county information)	54.3% (2356)	96.1% (862)	86.7% (209)	96.1% (221)	100.0% (35)
Total VOI/VOC Sequenced	Total	55.7% (3064)	95.7% (1024)	85.1% (234)	95.1% (253)	100.0% (35)
	ANDROSCOGGIN	705	128	16	8	1
	AROOSTOOK	198	53	12	16	0
	CUMBERLAND	872	108	22	34	5
	FRANKLIN	98	14	8	5	0
	HANCOCK	102	25	2	7	0
	KENNEBEC	358	94	24	25	3
	KNOX	80	14	4	16	1
	LINCOLN	70	21	3	1	3
	OXFORD	228	32	13	10	0
	PENOBCOT	587	177	53	34	2
	SAGADAHOC	58	17	2	0	0
	SOMERSET/PISCATAQUIS	280	88	24	13	0
	WALDO	97	23	6	14	11
	WASHINGTON	69	9	9	2	0
	YORK	536	94	43	45	9
Total Cases Sequenced	Total (w/ county information)	4338	897	241	230	35
Total Cases Sequenced	Total	5502	1070	275	266	35